

Petroleum Systems and Geologic Assessment of Oil and Gas in the San Joaquin Basin Province, California

Chapter 31

Conversion Factors (Approximate)

Compiled by T.R. Klett

Note: For this assessment, 6,000 cubic feet of gas equals 1 barrel of oil equivalent (BOE).

| To convert from | To | Multiply by |
|---|----------------------------------|-------------|
| Length | | |
| foot (ft) | kilometer (km) | 0.000305 |
| foot (ft) | meter (m) | 0.305 |
| foot (ft) | mile (mi) | 0.000189 |
| kilometer (km) | foot (ft) | 3,280 |
| kilometer (km) | mile (mi) | 0.621 |
| meter (m) | foot (ft) | 3.28 |
| mile (mi) | foot (ft) | 5,280 |
| mile (mi) | kilometer (km) | 1.61 |
| Area | | |
| sq. kilometer (km ²) | sq. mile (mi ²) | 0.386 |
| sq. mile (mi ²) | sq. kilometer (km ²) | 2.59 |
| Weight | | |
| metric ton | ton, short (2,000 lb) | 1.10 |
| ton, short (2,000 lb) | metric ton | 0.907 |
| Crude oil (based on average specific gravity at standard temperature and pressure) | | |
| barrel (bbl) | metric ton | 0.136 |
| barrel (bbl) | ton, short (2,000 lb) | 0.150 |
| metric ton | barrel (bbl) | 7.33 |
| ton, short (2,000 lb) | barrel (bbl) | 6.65 |

| To convert from | To | Multiply by |
|--|--|-------------|
| Liquid fuels | | |
| barrel (bbl) | cubic meter (m^3) | 0.159 |
| barrel (bbl) | gallon (gal) | 42.0 |
| barrel (bbl) | liter (L) | 159 |
| cubic meter (m^3) | barrel (bbl) | 6.29 |
| gallon (gal) | barrel (bbl) | 0.0238 |
| liter (L) | barrel (bbl) | 0.00629 |
| Gaseous fuels | | |
| cubic foot (ft^3) | cubic meter (m^3) | 0.0283 |
| cubic meter (m^3) | cubic foot (ft^3) | 35.3 |
| Coproduct ratios | | |
| cubic feet per barrel (ft^3/bbl or CF/B) | cubic meters per cubic meters (m^3/m^3) | 0.178 |
| barrel per million cubic feet ($bbl/1,000,000 ft^3$ or B/MMCF) | cubic centimeters per cubic meter (cm^3/m^3) | 5.61 |
| cubic meters per cubic meters (m^3/m^3) | cubic feet per barrel (ft^3/bbl or CF/B) | 5.61 |
| cubic centimeters per cubic meters (cm^3/m^3) | barrel per million cubic feet ($bbl/1,000,000 ft^3$ or B/MMCF) | 0.178 |
| Geothermal gradients | | |
| degree Celsius per 100 meters ($^{\circ}C/100 m$) | degree Fahrenheit per 100 feet ($^{\circ}F/100 ft$) | 0.549 |
| degree Fahrenheit per 100 feet ($^{\circ}F/100 ft$) | degree Celsius per 100 meters ($^{\circ}C/100 m$) | 1.82 |